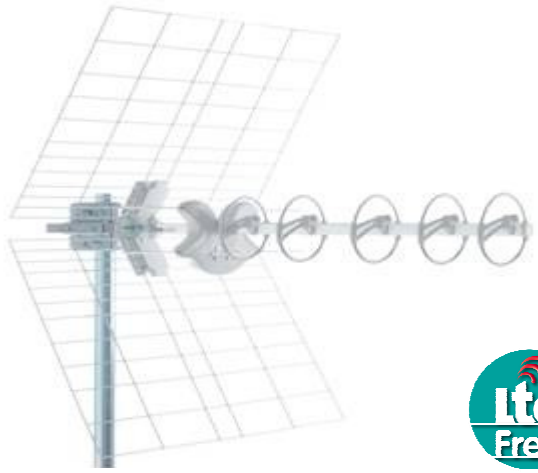
## UHF Aerials – ALPHA series

# ALPHA 5 HD LTE



Fracarro extends its ALPHA series of aerials integrating Loop yagi technology with SAW filters selectivity: Alpha HD LTE.

ALPHA 5 HD LTE has been developed to reduce the impact of LTE frequencies.

Superb electrical specifications with excellent directivity and gain in a compact size incorporating SAW filter technology within the dipole.

**Pre-assembled aerial: elements, mast mount, reflector clamp and dipole guide.**

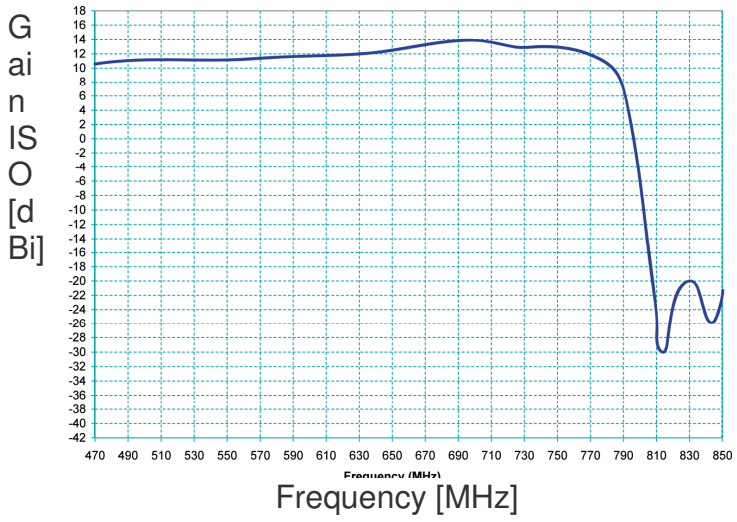
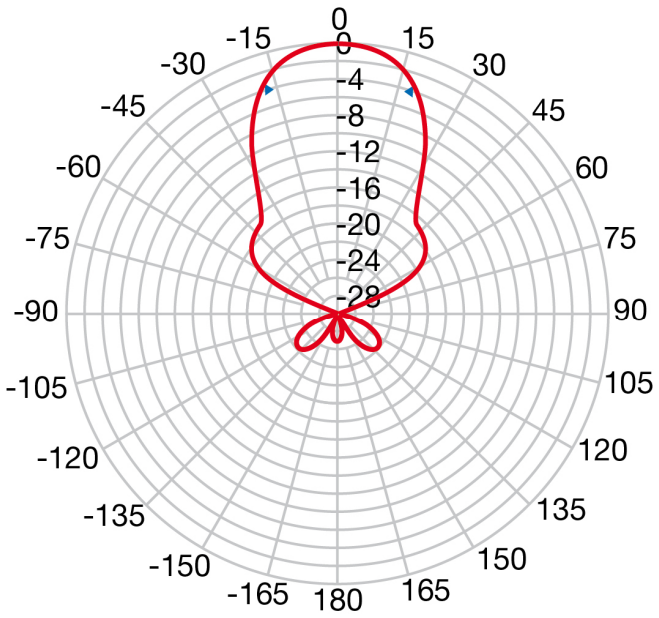
Fast and secure grid and dipole insertion onto the pre-assembled support.

## Main Specifications:

- 5 elements
- **SAW filter in the dipole**
- Loop yagi technology
- F connector
- Robust design using quality materials
- **Extremely quick construction**
- Maximum mast diameter 60mm
- Impedance 75 Ohm
- Double grid reflector
- **Selectivity of 35dB @ 30MHz (790-810MHz)**

| | | ALPHA 5 HD LTE |
|---|---|---|
| Fracarro code | | 213218 |
| Elements | No. | 5 |
| Band | | UHF |
| Channels | Europe | E21 - E60 |
| **Technical Characteristics** | | |
| Bandwidth | MHz | 470 – 790 |
| Maximum gain | dBi | 14 |
| Front-to-back ratio | dB | 38 |
| Return loss | dB | - 18 |
| Beamwidth (-3dB) | ° | +/-22 |
| Impedance | Ohm | 75 |
| **Mechanical Characteristics** | | |
| Dimensions (L x W) | cm | 81 x 50 |
| Mast joint. Max diameter | mm | 60 |
| Wind load at 120Km/h (720N/m2) | Kg (N) | 5.7 (55.86) |
| Connector | Type | F |
| **Accessories** | | |
| Horizontal polarisation | | Included |
| Horizontal polarisation with tilt adj. | | Included |
| Vertical polarisation | | Included |
| Vertical polarisation with tilt adj. | | Included |
| Auxiliary boom | | N.A. |

| Fracarro code | Item | Packaging | Quantity | Dimensions | Unit weight | Total weight |
|---|---|---|---|---|---|---|
| | | | Pcs | mm | Kg | Kg |
| 213218 | ALPHA 5 HD LTE | Box | 10 | 840 x 675 x 420 | 1.94 | 21.7 |

| FREQUENCY PERFORMANCE | | |
|---|---|---|
| ALPHA 5 HD LTE | GAIN |  |
| | DIRECTIVITY |  |